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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,644	11/12/2003	Shuibo Xie	1856-36301(9782.0-02)	7026
31889	7590 11/15/2006		EXAMINER	
	WESTPHAL HILLIPS COMPANY - I.	LANGEL, WAYNE A		
P.O. BOX 12		r. Legai	ART UNIT	PAPER NUMBER
PONCA CIT	Y, OK 74602-1267	602-1267		
			DATE MAILED: 11/15/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/706,644	XIE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Wayne Langel	1754	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a rep of will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	ATION. ly be timely filed IS from the mailing date of this communication NDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 24 (October 2006.		
2a)⊠ This action is FINAL 2b)☐ Thi	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under			is
Disposition of Claims			
4) Claim(s) <u>17-19,21-27,39-48 and 50-67</u> is/are	pending in the application.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) 17-19,21-27,39-41,44-48 and 50-55	is/are allowed.		
6)⊠ Claim(s) <u>42,43 and 56-67</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s)	is objected to. See 37 CFR 1.121	(d).
11)☐ The oath or declaration is objected to by the E	examiner. Note the attached (Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority document 	nts have been received.		
Certified copies of the priority document	nts have been received in App	olication No	
Copies of the certified copies of the price	ority documents have been re	eceived in this National Stage	
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	t of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sur	mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	Mail Date	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Info	ormal Patent Application .·	

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 56 and 59-65 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Schaddenhorst et al.

Schaddenhorst et al disclose a CPOX process in the presence of a rhodium-iridium alloy catalyst. (See col. 2, lines 15-58.)

Claims 57, 58, 66 and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaddenhorst et al as applied to claims 56 and 59-65 above, and

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further in view of Grieve et al. It would be further obvious from Grieve et al to include cerium as a promoter in the catalyst of Schaddenhorst et al, since Grieve et al disclose cerium as a partial oxidation catalyst component in combination with noble metals, at col. 10, lines 17-38. Regarding claim 67, it would also be obvious to employ lanthanum as a promoter, since cerium and lanthanum are both rare earth metals.

Applicants' argument, that Schaddenhorst et al fail to disclose that the rhodium alloy composition is supported on a modified alumina, is not convincing, since the zirconia-toughened alumina disclosed at col. 2, lines 56-58 of Scaddenhorst et al would be a modified alumina. Applicants' argument, that there is no disclosure in Schaddenhorst et al about values of carbon monoxide and hydrogen selectivity, is not convincing, since there is no evidence on record showing that the selectivities recited in applicants' claims would not be inherent in Schaddenhorst et al. Applicants' arguments regarding Grieve et al are not convincing, since Grieve et al is relied upon merely to show cerium in combination with noble metals as a partial oxidation catalyst.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 42 and 67 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no "description support" in the

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original specification for employing a second metal comprising ruthenium, rhenium, niobium or tantalum in combination with tungsten or zirconium. In claim 67, there is no "description support" in the original specification for employing a modifying agent selected from the group consisting of lanthanum, magnesium, aluminum, and combinations thereof.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 42 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is indefinite as to whether the tantalum and niobium would be tantalum and niobium in addition to that which is already present as the second metal.

Claims 17-19, 21-27, 39-41, 44-48 and 50-55 are allowed. However, in claims 17 and 56, lines 4 and 14 respectively, it is suggested that "at least" be deleted since the phrase is redundant.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne Langel

Primary Examiner

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